AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 3, line 6, as follows:

WO 83/01631 refers to a device for heat exchange of hot exhaust gases from closed electrolysis cells. The heat in the exhaust gases is used to preheat the feed flow of aluminium oxide to the electrolysis cell, and the regulation of the side layer's thickness in the cell as such is not an issue. ~~However, it is obvious to anyone who is skilled in the art that, by changing the extracted gas quantity from the cell, it is possible to influence the overall thermal balance of the electrolysis cell to a certain extent.~~

Please amend the paragraph beginning on page 3, line 12, as follows:

WO 87/00211 (see also NO 86/00048) from H-Invent describes a principle and a method for heat recovery from aluminium electrolysis cells. The publication describes metal plates with spiral ducts for extraction of heat from the side lining. Various coolants can be used. Among others, helium is mentioned in particular in the patent. The hot exhaust gases from heat exchange in the side lining can be used for energy production by driving an expansion machine that, in turn, drives an electric generator. The material in the heat exchanger plates is made of metal. In order to protect these plates against liquid electrolyte, an external layer of fireproof material, for example carbon, is used against the electrolyte. One ~~of the most obvious problems~~ problem with this solution will be ensuring good contact between the heat exchanger plates and the external cladding of fireproof material. Poor contact

between these two layers will reduce the effect of the heat exchanger installation and thus lead to reduced heat recovery and reduced control of the side layer's thickness in the electrolysis cell.